

## PRIMING MODULE FOR MICROFLUIDIC CHIPS

## ABSTRACT OF THE DISCLOSURE

5           Methods and apparatuses for priming sample substrates such as DNA sipper chips  
are disclosed. According to one aspect of the present invention, a priming system that is suitable for  
priming a substrate which has a plurality of wells and at least one channel includes a base unit and a  
top unit. The base unit is arranged to accommodate, or support, the substrate. The top unit, which  
is substantially physically separate from the base unit, fits over the substrate when the substrate is  
10 held by the base unit. The top unit includes an adapter portion that interfaces with the substrate.  
Included in the adapter portion is a first cavity that is used to facilitate pressurizing a first well of  
the substrate when the adapter portion is interfaced with the substrate such that the first cavity is  
aligned with the first well.